



CLAIMS - Clean Version

21. An image display apparatus comprising:

- (a) a light source for emitting beams based on superradiation;
- (b) an optical switch for inputting substantially linearly polarized beams output from the light source and modulating the substantially linearly polarized beams;
- and
- (c) a display optical system for displaying beams modulated by the optical switch.

22. The image display apparatus of claim 21, wherein the image display apparatus is a projection type image display apparatus and the light source is used for the projection type image display apparatus.

23. The image display apparatus of claim 22, further comprising:

- (a) a light source for color image;
- (b) a light source for luminance image;
- (c) an optical switch for color image for creating a color image by using the light source for color image;
- (d) an optical switch for luminance image for creating a luminance image by using the light source for luminance image;
- and
- (e) a combining optical system for combining the color image created by the optical switch for color image with the luminance image created by the optical switch for luminance image in order to create a combination image;

wherein the light source for emitting beams based on superradiation is used for at least one of the light source for color image and the light source for luminance image.

26. The image display apparatus of claim 21, wherein the light source includes a light emitting diode element.

27. An image display apparatus comprising:

(a) a light source for emitting beams based on superradiation;

and

(b) a display optical system for displaying beams modulated and output at the light source.

28. The image display apparatus of claim 27, wherein the image display apparatus is a projection type image display apparatus and the light source is used for the projection type image display apparatus.

29. The image display apparatus of claim 28, further comprising:

(a) a light source for color image;

(b) a light source for luminance image;

(c) an optical switch for color image for creating a color image by using the light source for color image;

(d) an optical switch for luminance image for creating a luminance image by using the light source for luminance image;
and

(e) a combining optical system for combining the color image created by the optical switch for color image with the luminance image created by the optical switch for luminance image in order to create a combination image;

wherein the light source for emitting beams based on superradiation is used for at least one of the light source for color image and the light source for luminance image.

32. The luminous element of claim 27, wherein the light source includes a light emitting diode element.

33. (Allowed) An image display apparatus comprising:

- (a) a light source for color image;
- (b) a light source for luminance image;
- (c) an optical switch for color image for creating a color image by using the light source for color image;
- (d) an optical switch for luminance image for creating a luminance image by using the light source for luminance image; and
- (e) a combining optical system for combining the color image created by the optical switch for color image with the luminance image created by the optical switch for luminance image in order to create a combination image.

34. An image display apparatus comprising:

- (a) a luminous device composed of arrayed light sources outputting different wavelength beams in time-sharing.

35. An image display apparatus comprising:

- (a) a luminous device composed of arrayed light sources outputting different wavelength beams in time-sharing, and
- (b) an optical switch for inputting the different wavelength beams output from each of the arrayed light sources of the luminous device, and modulating input different wavelength beams in time-sharing.

59. (**Twice Amended**) The image display apparatus of claim 66, 68 or 69, wherein the optical switch is a digital micro-mirror device composed of arrayed plural mirrors.

60. (**Twice Amended**) The image display apparatus of claim 66, 67, 68, or 69, wherein the luminous device is composed of plural light sources arrayed on a curved surface.

64. (**Amended**) The image display apparatus of claim 66, 68, or 69, wherein the optical switch is a liquid crystal panel, a reflection type liquid crystal panel.

65. (**Amended**) The image display apparatus of claim 66, 68, or 69, wherein the luminous device has plural light sources, an array shape of which is similar to a light-utilizing shape of the optical switch.

66. An image display apparatus comprising:

(a) a luminous device composed of arrayed plural electroluminescent elements or arrayed plural light emitting diode elements;

(b) an optical switch for inputting beams output from the luminous device and modulating the beams; and

(c) a display optical system for inputting the beams modulated by the optical switch in order to display an image.

67. An image display apparatus comprising:

(a) a luminous device composed of arrayed plural electroluminescent elements or arrayed plural light emitting diode elements;

(b) a parallel-conversion optical system for inputting beams output from the luminous device, and converting input beams into substantially parallel beams; and

(c) a display optical system for inputting the beams output from the parallel-conversion optical system in order to display an image.

68. An image display apparatus comprising:

(a) a luminous device composed of arrayed plural electroluminescent elements or arrayed plural light emitting diode elements;

(b) an optical switch for inputting beams output from the luminous device and modulating the beams;

(c) a parallel-conversion optical system for inputting the beams modulated by the optical switch, and converting input beams into substantially parallel beams; and

(d) a display optical system for inputting the beams output from the parallel-conversion optical system in order to display an image.

69. An image display apparatus comprising:

(a) a luminous device composed of arrayed plural electroluminescent elements or arrayed plural light emitting diode elements;

(b) a parallel-conversion optical system for inputting beams output from the luminous device, and converting input beams into substantially parallel beams;

(c) an optical switch for inputting beams output from the parallel-conversion optical system and modulating the beams; and

(d) a display optical system for inputting the beams modulated by the optical switch in order to display an image.

70. (New) The image display apparatus of claim 34 or 35, wherein the luminous device is composed of a plurality of luminous devices, each of the luminous devices being composed of a plurality of arrayed light sources outputting lights of nearly the same wavelength.

71. (New) The image display apparatus of claim 34 or 35, wherein the luminous device is composed of arrayed luminous device groups, each of which is made of light sources of plural kinds outputting lights of different wavelengths.

72. (New) The image display apparatus of claim 66, 67, 68 or 69, wherein the luminous device is composed of a plurality of luminous devices, each of the luminous devices being composed of a plurality of arrayed electro-luminescent elements or arrayed light emitting diode elements outputting lights of nearly the same wavelength.

73. (New) The image display apparatus of claim 66, 67, 68 or 69, wherein the luminous device is composed of arrayed electro-luminescent groups or arrayed light emitting diode groups, each of the groups being made of electro-luminescent elements or light emitting diode elements of plural kinds outputting lights of different wavelengths.